

ABSTRACT

A system to compensate for luminance degradation of an emissive display is provided. As its primary components, the system includes a controller and a temperature sensor. The controller is coupled to the emissive display to provide a driving signal thereby controlling the display luminance. The temperature sensor is located proximate the emissive display and is in electrical communication with the controller. The controller receives a temperature signal from the temperature sensor and varies the luminance based on the temperature signal. As the temperature of the emissive display increases, the controller reduces the display luminance according to a transfer function. The transfer function may have a linear term and/or a non-linear term relating the operating luminance to the display temperature.